



## Fabricating Committee Meeting

September 11, 2018

### Call to Order

The meeting was called to order by Aaron Thompson, Viracon, at 9:37 am PT. The meeting was adjourned at 2:27 pm PT.

Chair: Aaron Thompson, Viracon

Vice Chair: Bobby Chestnut, Standard Bent Glass

### Administrative Activities

Introductions were made.

Sponsors were recognized.

Sara Neiswanger, NGA Senior Manager, GANA Member Services will act as Recording Secretary

### Anti-Trust Statement

It is the undeviating policy of the Association to comply strictly with the letter and spirit of all federal, state and applicable international trade regulations and antitrust laws. Any activities of the Association or Association-related actions of its staff, members, officers, directors or chapter officials which violate these regulations and laws are detrimental to the interests of the Association and are unequivocally contrary to Association policy.

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### Integration Task Force Update – Julia Schimmelpenninck, Eastman Chemical Company

- A summary on the use and intent of the Project Creation Forms was reviewed.
- An understanding of technical progress was discussed.
- A draft of proposed voting procedures was presented. Levels of voting may include task group, technical liaisons, committee and board.

### Business Items

#### *Decorative – Sylvain Denis, Walker Glass*

- Defining an Acceptable Color Variance
  - Project creation form was completed and reviewed.
  - Developing an acceptable range is desired. It would be written in ASTM format; upon approval and publication by the association, it could then be shared with ASTM for acceptance.
  - The project creation form will be reviewed as a full task group, considering taking an approach of how someone would come up with a delta E number.
- Decorative Glazing Manual
  - The Manual outline of topics was reviewed.
  - A meeting will be scheduled to consider what topics are missing and develop a wish list of additional topics.
    - A project idea form will be created for the wish list of topics.
- Trends in Decorative Glass Paints
  - Staff will update the existing project creation form and reconvene the task group for review and approval.
- How to View Decorative Products in Interior and Exterior Applications
  - This activity was tabled for a time while the related information from the ASTM C1048 and C1172 are finalized for eventual use in this resource.

#### *Mirror – Dave Evans, Guardian Glass*

- Understanding Reflective Distortion – published!

#### *Insulating – Jeff Haberer, Trulite*

- Multicavity Glazing AIA presentation
  - Presentation has been approved by AIA
  - Seeking approved presenters
  - Consider giving this presentation as a Thirsty Thursday webinar
- Unique IGUs



- The task group continues to refine the scope of the document using its project creation form.
- IGMA is also drafting a document on a large IGUs subject, the intent of which will be discussed.
- Task Group: add Steve Dean, Permasteelisa
- Understanding Reflective Solar Energy
  - Passed all ballots and is being formatted for publication.
- Compatibility Testing of Glazing Materials Related to the Performance of PIB in IGUs
  - Undergoing ballot and comments remain to be addressed. Eight more votes are needed to reach quorum and lead to publication.
- Unsupported Edges of IGUs
  - Published!
- IGCC Update – *John Kent*
  - Developing of interactive lab training exam to launch in August 2018
  - “voluntary” sealant fingerprint process approved
  - Exotic gas certification was reinstated with use of argon
  - Product codes were harmonized with IGMAC
- IGMA Update – *Margaret Webb*
  - Thermal stress research project modeling nearly complete
  - Exotic gas measurement task groups
  - Splitting windows PCR into two documents for residential and commercial applications
  - IG Cavity Width Manufacturing Tolerances guidelines published

*Fire-Rated Glazing – Karen Wegert, SCHOTT*

- Code Update – *Thom Zaremba, Roetzel & Andress*
  - Structural fire-rated issues will be heard in the 2019 code hearings. 2020 is considered a ‘blank’ year formerly occupied by IgCC (which has since been merged into ASHRAE).
  - ICC is forming a new task group to address school security issues. Thom Zaremba will be submitting an application to be a glass industry representative on that task group.
    - FS1 – deluge sprinkler system marketed as a substitute for fire-resistance or fire-protective glass. Sprinkler systems cannot be utilized when a fire-rated product is specified, made in alignment with ASTM E119.
    - FS26 – public comment not pursued; exterior wall enclosing an energy storage facility must be fire-resistant glass in Section 707.4.
    - FS33 – updates the list of fire partitions in Section 706.1.
    - FS34 – Updates fire barrier separations in I-1, R-1 and R-2 occupancies.
    - FS57 – Permits 100 sq.in. view panels in 3-hour fire doors in all 3 and 4 hour fire walls and barriers.
    - FS58 –
    - FS61 – permits fire-protection rated glazing to exceed 100 sq.in. in temperature rise doors if it is a fully sprinklered building.
- Fire-Rated Glazing Changes in the IBC
  - Currently being updated to reflect the most current version of the code.
- Fire-Rated Glazing Today AIA presentation
  - Division 08 Marketing, Alice Dickerson, has been engaged in researching and updating this presentation. Her current efforts are being reviewed by the fire-rated glazing task group at this time.

*Laminating – Julie Schimmelpenningh, Eastman Chemical Co.*

- Laminated Glazing Reference Manual
  - Manual text is complete and has been handed over to staff to formatting and publication.
- Hurricane Product Substitution
  - Document has been updated to reflect new information related to substitution options. It is currently at ballot.
- Compression of Interlayers



- A task group meeting will be scheduled to consider the testing results that have been completed by Dorma to date.
- Exposed Edges – published!
- Jumbo Glazing
  - Project creation form is under development, specifically as it relates to incorporating jumbo glazing into ASTM C1172 and the other task groups addressing jumbo glass.
  - Meeting while at Fall Conference specifically on ASTM C1172.
- Deflection tables for laminated glass
  - Deflection numbers for tempered glass has been completed, to be incorporated into the Engineering Standards Manual.
  - A call for task group volunteers will be issued.
  - Melissa Stotkowskzi will assume the role of chair.
- SGCC Update
  - Online training for lab personnel released in July 2018
  - ‘Plant’ QA requirements being revised
  - Considering further definition of Laminated Specialty Products
  - Voluntary pilot study to review equivalency of coated glass
- ANSI Z97.1 Update
  - 2015 standard available to purchase on ansi.org or ansiz97.com.
  - Requests for interpretation on vacuum insulating glazing and chemically strengthened glass
  - Next Full Committee meeting to occur in 2019
  - Ballot to re-affirm the standard will occur in 2019
  - Target publication date in 2020
- ISO 12543 update
  - Comparable to ASTM C1172 and making consistent with the ANSI Z97 content on durability.
  - Adjustments to the bake tests are also being considered.

*Protective Glazing – Vaughn Schauss, Kuraray*

- Protective Glazing 101 AIA Presentation
  - Being updated including new additions for blast and electromagnetic shielding
- Security Window Design Workshop
  - Workshop was cancelled due to lesser attendance than was the goal.
  - Intent is to plan the event again in 2019.

*Tempering – Rick Wright, Oldcastle BuildingEnvelope*

- ASTM C1048 Update
  - Ballot negatives and comments will be addressed by Scott White, Chair, and Rick Wright, Technical Contact, of the C1048 Review Task Group. A new 2018 version of the standard is anticipated by the end of the year.
- Engineering Standards Manual
  - Section 11 is at ballot, which includes an updated table on the minimum thicknesses for fully tempered glass in butt-glazed fixed interior panels
- Heavy Glass Door Design Guide
  - Waiting for the Section 11 table to be completed and incorporated
  - Otherwise, proofing in effort to release a 20<sup>th</sup> anniversary edition in 2019
- Point-Supported Glass
  - Allowable stresses have been created
  - Simultaneously updating the existing Point-Supported Glazing GIB in effort to consolidate the information
  - The task group will meet again the week of Sept 24th
- Thermal Stress in Spandrel
  - GIB received negatives at its recent ballot which were discussed during the meeting. The task group will consider the comments at a meeting to be scheduled. See most recent version of the document for current comments.



### Publications Update

- New GIB coding system was explained.
  - A desire was expressed to contain an additional identifier of what “section” it applies to, such as laminating or decorative.
  - A comprehensive search function will be included on the website.
- Active ballots and systematic review ballots were reviewed.
  - Three GIBs have completed systematic review and are being prepared for re-publication: Construction Site Protection, Importance of Fabrication Prior to Heat-Treatment and Screening Out UV Radiation with Laminated Glass

- Adjourned until Thursday, September 13, 2018 -

### Call to Order

The meeting was called to order by Chair Aaron Thompson, Viracon, at 8:17 am PT. The meeting was adjourned at 9:00 am PT.

Chair: Aaron Thompson, Viracon

Vice Chair: Bobby Chestnut, Standard Bent Glass

### Administrative Activities

Introductions were made.

Sponsors were recognized.

Sara Neiswanger, NGA Senior Manager, GANA Member Services will act as Recording Secretary

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### Business Items

*Energy – Helen Sanders, Technoform*

- Health and Wellness Benefits webpage resources review: <http://www.glasswebsite.com/daylighting.html>
  - Webpage statistics will be gathered on the webpage usage
- Energy Applications – the GIB received negatives at ballot which the task group will consider at its next meeting
- Other potential topics:
  - Considerations in thermal bridging of framing – Chuck Knickerbocker will complete the Project Idea Form to initiate a draft project. It will be inclusive of many fabricating arms beyond energy.

### Next Meetings

Annual Conference 2019 – January 22-24, 2019 | Naples Grande Resort, Naples, FL

BEC Conference 2019 – March 3-5, 2019 | Caesars Palace, Las Vegas, NV